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1 Prototyping a fault-tolerant multiprocessor SoC with run-time fault recovery   Ads
◆ Xinping Zhu, Wei Qin
   July 2006 DAC '06: Proceedings of the 43rd annual conference on Design automation   Onl
   Publisher: ACM   Full
   Full text available: 📄 pdf(579.85 KB) Additional Information: full citation, abstract, references, index terms   aca
                                                                                           at C
   Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 95, Citation Count: 0   Libr

   Modern integrated circuits (ICs) are becoming increasingly complex. The complexity
   makes it difficult to design, manufacture and integrate these high performance ICs. The
   advent of multiprocessor Systems-on-chips (SoCs) makes it even more challenging ...

   Keywords: fault-tolerance, multiprocessor system, network-on-chip, retargetable   Wal
   simulation, run-time verification, system-on-chip   Jou
                                                                                           Wal
                                                                                           Free
2 Integrating coordinated checkpointing and recovery mechanisms into DSM   Wee
◆ synchronization barriers
   Azzedine Boukerche, Alba Cristina Magalhaes Alves De Melo
   February 2007 Journal of Experimental Algorithmics (JEA), Volume 11
   Publisher: ACM
   Full text available: 📄 pdf(248.58 KB) Additional Information: full citation, abstract, references, index terms   Onl
                                                                                           Res
   Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 132, Citation Count: 0 The
                                                                                           In C
   Distributed shared memory (DSM) creates an abstraction of a physical shared memory   Res
   that parallel programmers can access. Most recent software DSM systems provide   Tod
   relaxed-memory models that guarantee consistency only at synchronization operations,
   such ...

   Keywords: Distributed shared memory, barrier synchronization
                                                                                           Cor
                                                                                           Pub
3 Recovery guarantees for Internet applications   Pub
◆ Roger Barga, David Lomet, German Shegalov, Gerhard Weikum   Cus
   August 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 3   Ann
   Publisher: ACM   Pub
   Full text available: 📄 pdf(997.52 KB) Additional Information: full citation, abstract, references, cited by, index
                                              terms, review

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose ...

Keywords: Exactly-once execution, application recovery, communication protocols, interaction contracts

4 Error-tolerant password recovery
Niklas Frykholm, Ari Juels
November 2001 CCS '01: Proceedings of the 8th ACM conference on Computer and Communications Security
Publisher: ACM
Full text available: pdf(250.03 KB) Additional Information: full citation, abstract, references, cited by, index terms

Many encryption systems require the user to memorize high entropy passwords or passphrases and reproduce them exactly. This is often a difficult task. We propose a more fault-tolerant scheme, where a high entropy key (or password) is derived from a sequence ...

Keywords: Reed-Solomon codes, error-correcting codes, fault-tolerance, fuzzy commitment, password ensembles, password recovery

5 B-tree concurrency control and recovery in page-server database systems
Ibrahim Jaluta, Seppo Sippu, Eljas Soisalon-Soininen
March 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 1
Publisher: ACM
Full text available: pdf(401.86 KB) Additional Information: full citation, appendices and supplements, abstract, references, index terms

We develop new algorithms for the management of transactions in a page-shipping client-server database system in which the physical database is organized as a sparse B-tree index. Our starvation-free fine-grained locking protocol combines adaptive callbacks ...

Keywords: ARIES, ARIES/CSA, B-tree, cache consistency, callback locking, client-server database system, data shipping, key-range locking, page server, partial rollback, physiological logging, sparse B-tree, structure modification

6 Recovery of mobile internet transactions: algorithm, implementation and analysis
Shashi Anand B, Krithi Ramamritham
June 2005 MobiDE '05: Proceedings of the 4th ACM international workshop on Data engineering for wireless and mobile access
Publisher: ACM
Full text available: pdf(191.76 KB) Additional Information: full citation, abstract, references, index terms

The increasing popularity of mobile devices and the support of web portals towards performing transactions from these mobile devices has enabled business on the move. However, internet access from mobile devices is expensive and is subject to high rate ...

Keyw ords: WAP, WAP internet transaction, internet transaction, mobile internet transaction, mobile transaction, recovery

7   Cheap recovery: a key to self-managing state
Andrew C. Huang, Armando Fox
February 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 1
Publisher: ACM
Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 149, Citation Count: 0

Cluster hash tables (CHTs) are key components of many large-scale Internet services due to their highly-scalable performance and the prevalence of the type of data they store. Another advantage of CHTs is that they can be designed to be as self-managing ...

Keyw ords: Cluster hash table, manageability, quourum replication, storage systems design

8   A new scheme on recovery from failure in NICE overlay protocol
Abdolreza Abdolhosseini Moghadam, Saman Barghi, Hamid Reza Rabiee, Mohammad Ghanbari
May 2006 InfoScale '06: Proceedings of the 1st international conference on Scalable information systems
Publisher: ACM
Full text available: pdf(204.05 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 45, Citation Count: 0

Overlay networks have been an active area of research for the past few years. The control overhead and the recovery from failure are the two important issues in the topology aware embedded overlay networks. In this research, we have introduced an enhanced ...

9   Fast and transparent recovery for continuous availability of cluster-based servers
Rosalia Christodoulopoulou, Kaloian Manassiev, Angelos Bilas, Cristiana Amza
March 2006 PPoPP '06: Proceedings of the eleventh ACM SIGPLAN symposium on Principles and practice of parallel programming
Publisher: ACM
Full text available: pdf(111.02 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 112, Citation Count: 0

Recently there has been renewed interest in building reliable servers that support continuous application operation. Besides maintaining system state consistent after a failure, one of the main challenges in achieving continuous operation is to provide ...

Keyw ords: availability, distributed shared memory, fast failure reconfiguration, fault tolerance, scalability

10 Dispelling 10 common disaster recovery myths: Lessons learned from Hurricane Katrina and other disasters
Brett J. L. Landry, M. Scott Koger

December 2006 Journal on Educational Resources in Computing (JERIC), Volume 6 Issue 4
Publisher: ACM
Full text available: pdf(136.68 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 484, Citation Count: 0

Disasters happen all the time; yet despite this, many organizations are caught unprepared or make unrealistic assumptions. These factors create environments that will fail during a disaster. Most information technology (IT) curricula do not cover disaster ...

Keywords: Hardware failures, IT curricula, backups, business continuity, disaster recovery, network attacks, software failures, viruses, worms

11 The collective memory of amnesic processes
Rachid Guerraoui, Ron R. Levy, Bastian Pochon, Jim Pugh
March 2008 ACM Transactions on Algorithms (TALG), Volume 4 Issue 1
Publisher: ACM
Full text available: pdf(560.10 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

This article considers the problem of robustly emulating a shared atomic memory over a distributed message-passing system where processes can fail by crashing and possibly recover. We revisit the notion of atomicity in the crash-recovery context and ...

Keywords: Atomic registers, crash recovery, log complexity, shared-memory emulation

12 On handling component and transaction failures in multi agent systems
Pradeep Reddy Varakantham, Santosh Kumar Gangwani, Kamalakar Karlapalem
December 2001 ACM SI Gecom Exchanges, Volume 3 Issue 1
Publisher: ACM
Full text available: pdf(93.91 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 43, Citation Count: 1

Multi agent systems are being used for various practical applications like e-commerce, e-auctions and gathering information from the web. Thus there is a need for these systems to be robust. However, agents can fail due to component failures. The atomic ...

Keywords: agent, atomicity in agents, durability in agents, logging in agents, multi agent system, recovery in agents

13 Recovering device drivers
Michael M. Swift, Muthukaruppan Annamalai, Brian N. Bershad, Henry M. Levy
November 2006 ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 4
Publisher: ACM
Full text available: pdf(365.93 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 282, Citation Count: 0

This article presents a new mechanism that enables applications to run correctly when device drivers fail. Because device drivers are the principal failing component in most systems, reducing driver-induced failures greatly improves overall reliability. ...

Keywords: I/O, Recovery, device drivers

14 What can identity-based cryptography offer to web services?
Jason Crampton, Hoon Wei Lim, Kenneth G. Paterson
November 2007 SWS '07: Proceedings of the 2007 ACM workshop on Secure web services
Publisher: ACM
Full text available: pdf(245.87 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 208, Citation Count: 0

   Web services are seen as the enabler of service-oriented computing, a promising next
   generation distributed computing technology. Independently, identity-based
   cryptography is emerging as a serious contender to more conventional certificate-based
   public ...

   Keywords: identity-based cryptography, message-level security, web services

15 The evolution of Coda
M. Satyanarayanan
May 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 2
Publisher: ACM
Full text available: pdf(441.35 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                    terms

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 195, Citation Count: 13

   Failure-resilient, scalable, and secure read-write access to shared information by mobile
   and static users over wireless and wired networks is a fundamental computing challenge.
   In this article, we describe how the Coda file system has evolved to meet ...

   Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous
   data access, data staging, disaster recovery, disconnected operation, failure, high
   availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth
   networks, mobile computing, optimistic replica control, server replication, translucent
   cache management, weakly connected operation

16 Using model checking to find serious file system errors
Junfeng Yang, Paul Twohey, Dawson Engler, Madanlal Musuvathi
November 2006 ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 4
Publisher: ACM
Full text available: pdf(534.00 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 263, Citation Count: 0

   This article shows how to use model checking to find serious errors in file systems. Model
   checking is a formal verification technique tuned for finding corner-case errors by
   comprehensively exploring the state spaces defined by a system. File systems ...

   Keywords: Model checking, crash, file system, journaling, recovery

17 BASE: Using abstraction to improve fault tolerance
Miguel Castro, Rodrigo Rodrigues, Barbara Liskov
August 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 3
Publisher: ACM
Full text available: pdf(438.18 KB)   Additional Information: full citation, abstract, references, cited by, index

terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 144, Citation Count: 4

Software errors are a major cause of outages and they are increasingly exploited in malicious attacks. Byzantine fault tolerance allows replicated systems to mask some software errors but it is expensive to deploy. This paper describes a replication ...

Keywords: Byzantine fault tolerance, N-version programming, asynchronous systems, proactive recovery, state machine replication

18 Atomicity and isolation for transactional processes
Heiko Schuldt, Gustavo Alonso, Catriel Beeri, Hans-Jörg Schek
March 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 1
Publisher: ACM

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 141, Citation Count: 10

Processes are increasingly being used to make complex application logic explicit. Programming using processes has significant advantages but it poses a difficult problem from the system point of view in that the interactions between processes cannot ...

Keywords: Advanced transaction models, business process management, electronic commerce, execution guarantees, locking, rocesses, semantically rich transactions, transactional workflows, unified theory of concurrency control and recovery

19 Improving the reliability of commodity operating systems
Michael M. Swift, Brian N. Bershad, Henry M. Levy
February 2005 ACM Transactions on Computer Systems (TOCS), Volume 23 Issue 1
Publisher: ACM

Full text available: pdf(459.98 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 374, Citation Count: 8

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85&percent; of recently reported failures.This article ...

Keywords: I/O, Recovery, device drivers, protection, virtual memory

20 Total order broadcast and multicast algorithms: Taxonomy and survey
Xavier Défago, André Schiper, Péter Urbán
December 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 4
Publisher: ACM

Full text available: pdf(544.45 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 500, Citation Count: 6

Total order broadcast and multicast (also called atomic broadcast/multicast) present an important problem in distributed systems, especially with respect to fault-tolerance. In short, the primitive ensures that messages sent to a set of processes are, ...

Keywords: Distributed systems, agreement problems, atomic broadcast, atomic

multicast, classification, distributed algorithms, fault-tolerance, global ordering, group communication, message passing, survey, taxonomy, total ordering

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